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ABSTRACT

A fluoropolymer is described which is a polymer reaction product of a fluoropolymer comprising a polymer reaction product of a) at least one first alkylene co-
5 monomer containing at least one fluorine atom; b) optionally at least one monomer selected from 1) at least one second alkylene containing at least one fluorine atom; 2) at least one alkyl alkenyl ether containing at least one fluorine atom; 3) at least one aliphatic or cyclic ketone containing at least one fluorinated alpha-alpha position; or 4) non-fluorinated alkene, alkyl alkenyl ether, or alkenyl ester; and c) at least one sterically hindered alkenyl or alkenyl
10 ether organo silane co-monomer with or without at least one fluorine substituent. The fluoropolymer can be subsequently cross-linked or further reacted. Methods of making the fluoropolymer are further disclosed as well as applications of the fluoropolymers.